

FIG. 1

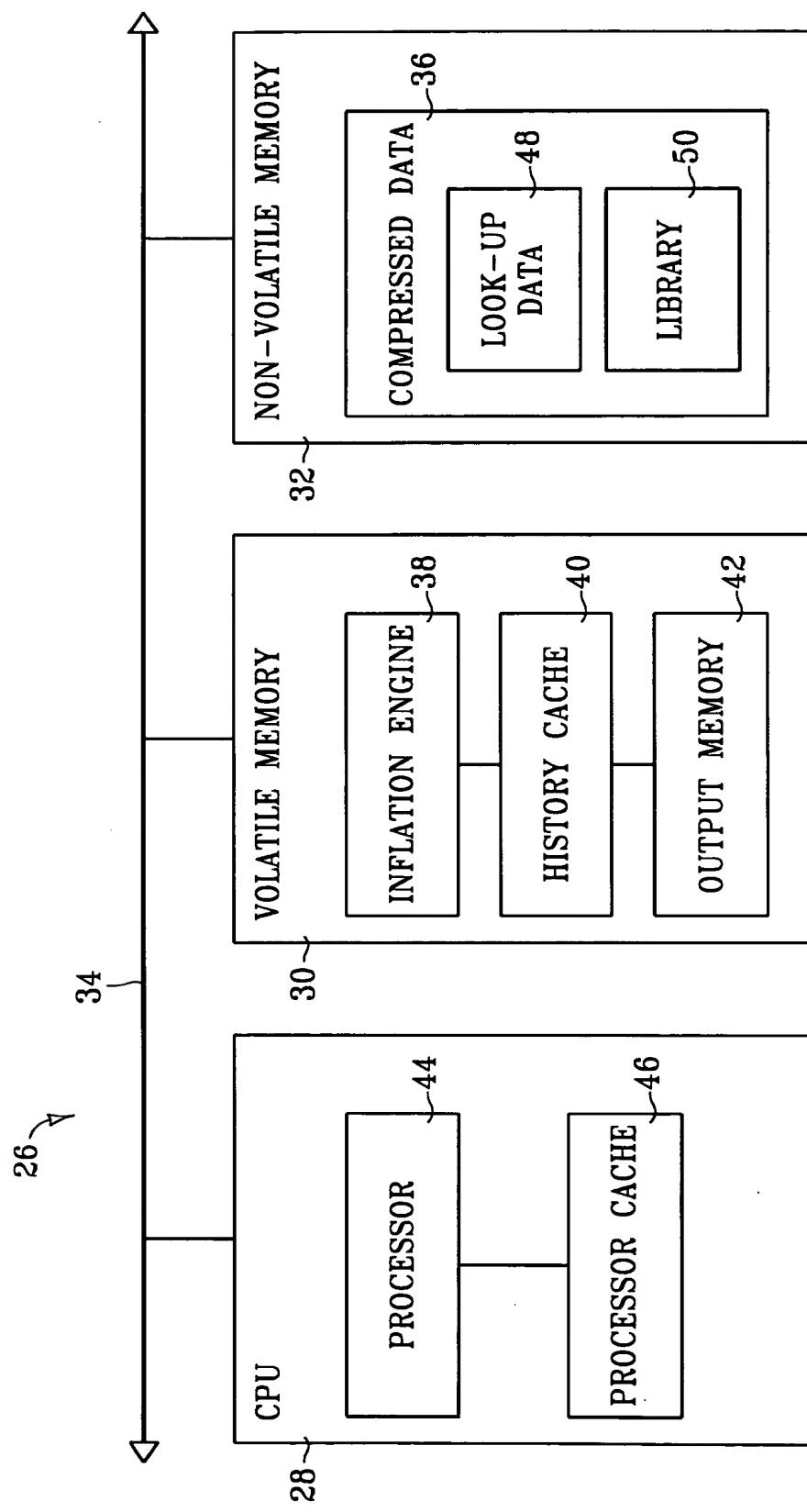


FIG. 2

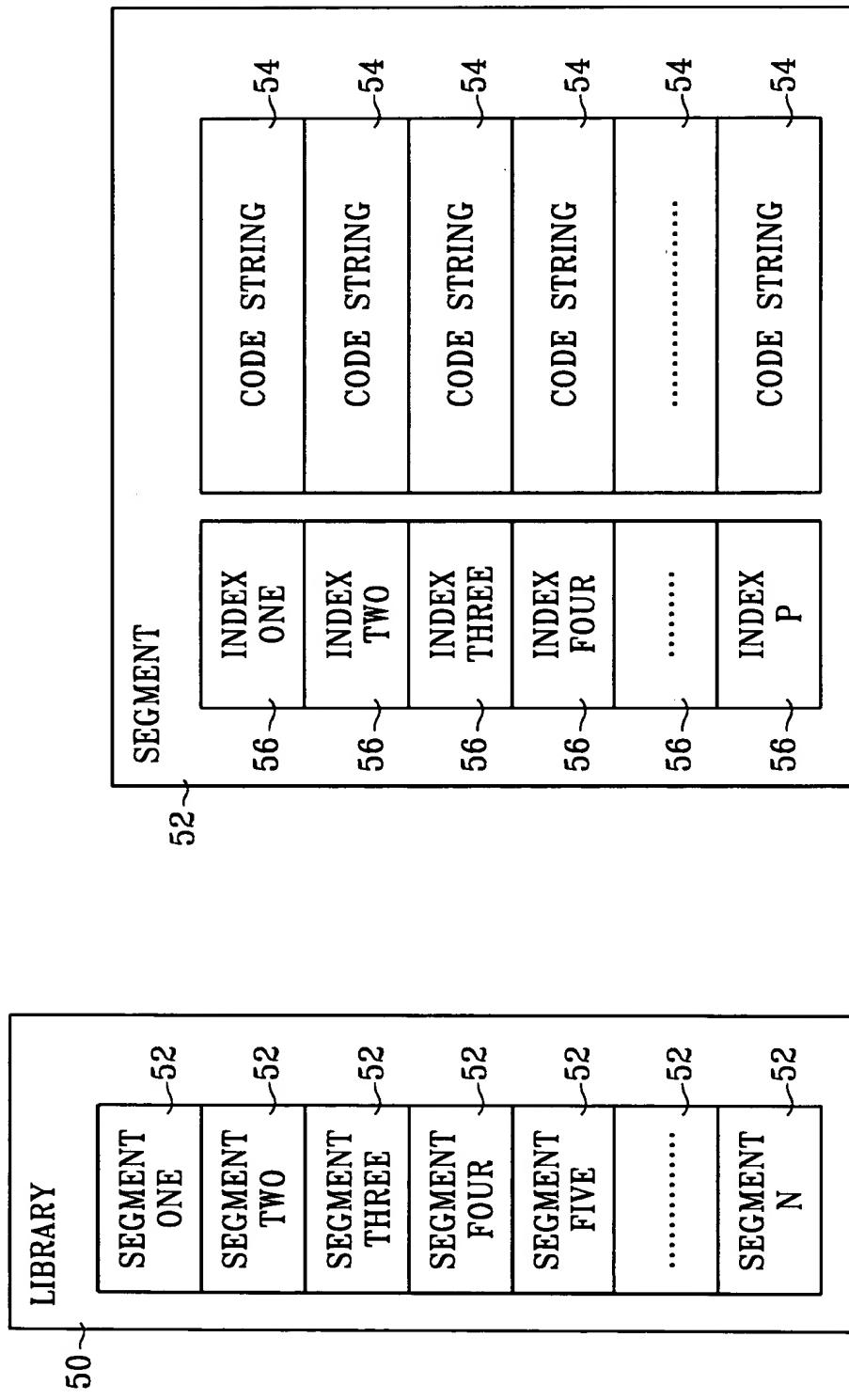


FIG. 3

FIG. 4

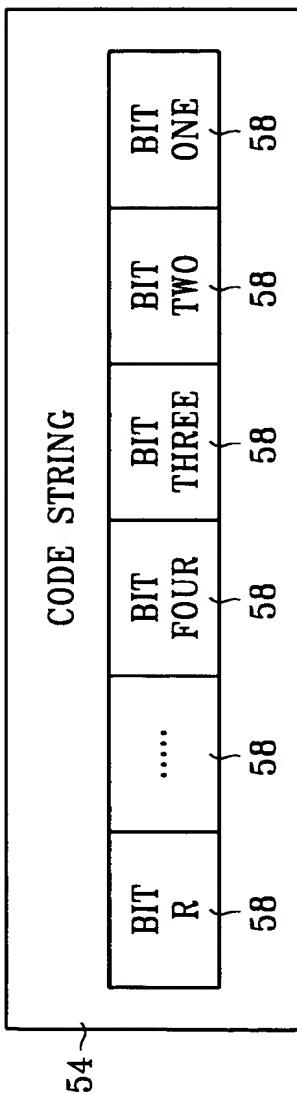


FIG. 5

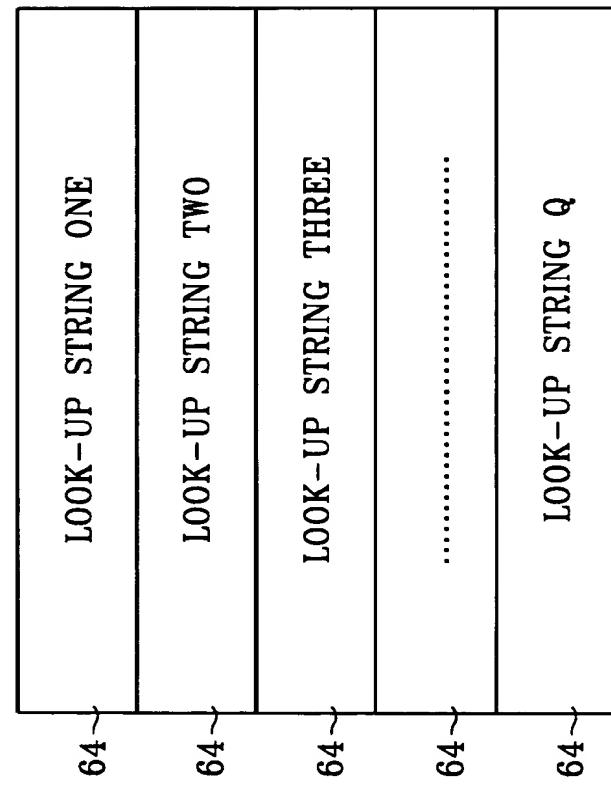


FIG. 7

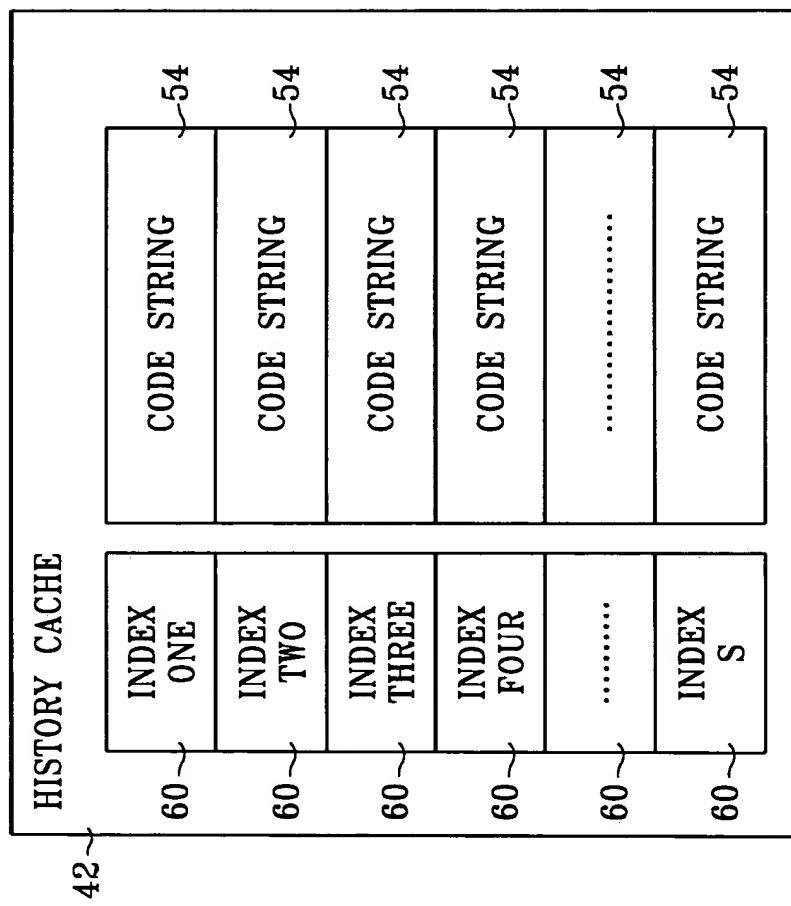


FIG. 6

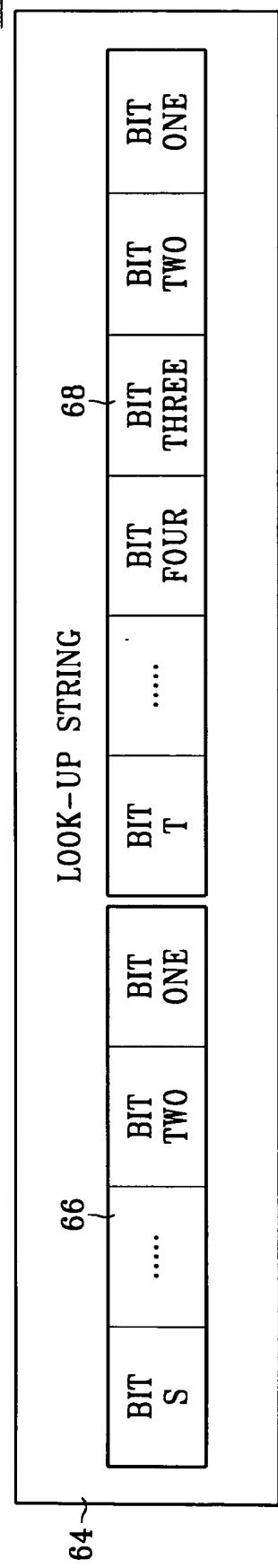


FIG. 8

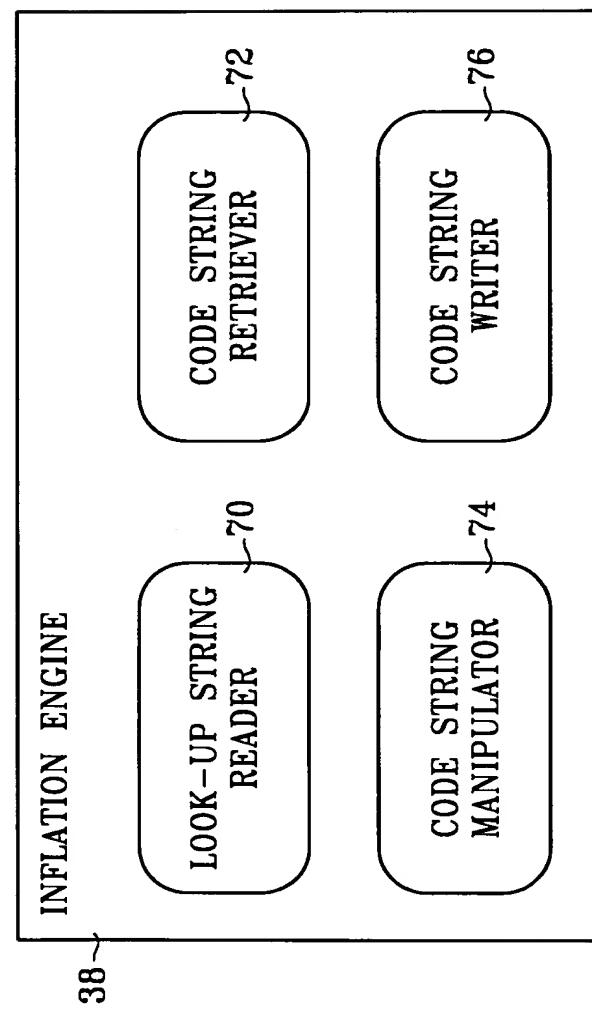


FIG. 9

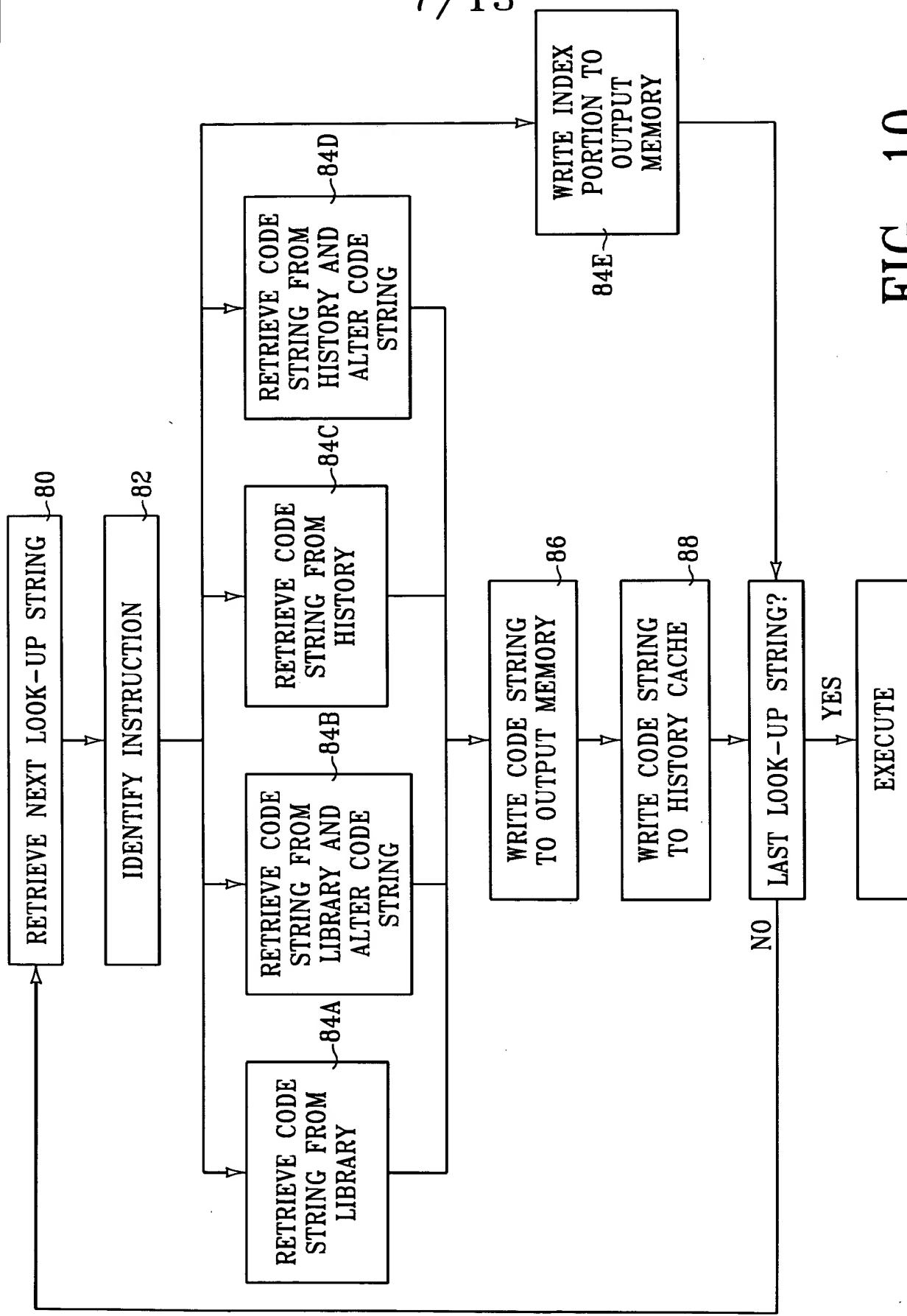


FIG. 10

SEGMENT 0000	16 INDEXED POSITIONS 4 BIT INDEX
SEGMENT 0001	32 INDEXED POSITIONS 5 BIT INDEX
SEGMENT 0010	64 INDEXED POSITIONS 6 BIT INDEX
SEGMENT 0011	128 INDEXED POSITIONS 7 BIT INDEX
SEGMENT 0100	256 INDEXED POSITIONS 8 BIT INDEX
SEGMENT 0101	512 INDEXED POSITIONS 9 BIT INDEX
SEGMENT 0110	1024 INDEXED POSITIONS 10 BIT INDEX
SEGMENT 0111	2048 INDEXED POSITIONS 11 BIT INDEX
SEGMENT 1000	4096 INDEXED POSITIONS 12 BIT INDEX
SEGMENT 1001	8192 INDEXED POSITIONS 13 BIT INDEX

56 ~	0000	CODE STRING	54
56 ~	0001	CODE STRING	54
56 ~	0010	CODE STRING	54
56 ~	0011	CODE STRING	54
56 ~	0100	CODE STRING	54
56 ~	0101	CODE STRING	54
56 ~	0110	CODE STRING	54
56 ~	0111	CODE STRING	54
56 ~	1000	CODE STRING	54
56 ~	1001	CODE STRING	54
56 ~	1010	CODE STRING	54
56 ~	1011	CODE STRING	54
56 ~	1100	CODE STRING	54
56 ~	1101	CODE STRING	54
56 ~	1110	CODE STRING	54
56 ~	1111	CODE STRING	54

52

FIG. 12

50

FIG. 11

9 / 13

64		66		LOOK-UP STRING		68	
		INSTRUCTION PORTION		INDEX PORTION		TOTAL BITS	
OPERATION							
Library		0000		00000 through 11111		8	
Retrieve/Write		0000		00000 through 11111		9	
Library		0000		000000 through 111111		10	
Retrieve/Write		0000		0000000 through 1111111		11	
Library		0000		00000000 through 11111111		12	
Retrieve/Write		0000		000000000 through 111111111		13	
Library		0000		0000000000 through 1111111111		14	
Retrieve/Write		0000		00000000000 through 11111111111		15	
Library		0000		000000000000 through 111111111111		16	
Retrieve/Write		0000		0000000000000 through 1111111111111		17	
Library							
Retrieve/Write							

FIG. 13

64		66		LOOK-UP STRING		68	
		INSTRUCTION PORTION		INDEX PORTION			
Operation						Position	Total Bits
<u>Library</u>		1011		000000000000 through 111111111111 -plus- 00000 through 11111		Bit	23
<u>Library</u>		1100		000000000000 through 111111111111 -plus- 0000000 through 11111111		Position	26
<u>Library</u>		1101		000000000000 through 111111111111 -plus- 0000000 through 11111111		Position	26
<u>Library</u>		11100		000000000000 through 111111111111 -plus- 00000 through 11111 -plus- 00000 through 11111		Position	29

FIG. 14

11 / 13

64		66		LOOK-UP STRING		68	
		INSTRUCTION PORTION		INDEX PORTION		Total Bits	
Operation						Position	
<u>History</u>				0000000000000000 through 1111111111111111			
-Retrieve-			11101	-plus-			
-Write-				000 through 111			
<u>History</u>					Times Dup.	22	
-Retrieve-			11110	00000 through 11111			
-Duplicate-					Times Dup.	10	
<u>History</u>				000000000000 through 1111111111111111			
-Retrieve-			11111	-plus-			
-Alter 1 BIT-				00000 through 11111			
-Write-					Bit	24	

FIG. 15A

Operation	INSTRUCTION PORTION	INDEX PORTION	Total Bits
<u>History</u>	000000000000 through 111111111111	Position	
-Retrieve- -Write-	11101 -plus- 000 through 111	Times Dup.	22
<u>History</u>	000000000000 through 111111111111	Position	
-Retrieve- -Alter 1 BIT- -Write-	11111 -plus- 00000 through 11111	Bit	24
<u>History</u>	000000000000 through 111111111111	Position	
-Retrieve- -Alter 2 BITS- -Write-	111101 -plus- 00000 through 11111	Bit	30

FIG. 15B